

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 February 2004 (05.02.2004)

PCT

(10) International Publication Number
WO 2004/011816 A3

(51) International Patent Classification⁷: **E05B 63/00**

(21) International Application Number:
PCT/GB2003/003277

(22) International Filing Date: 30 July 2003 (30.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0217734.3 31 July 2002 (31.07.2002) GB

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

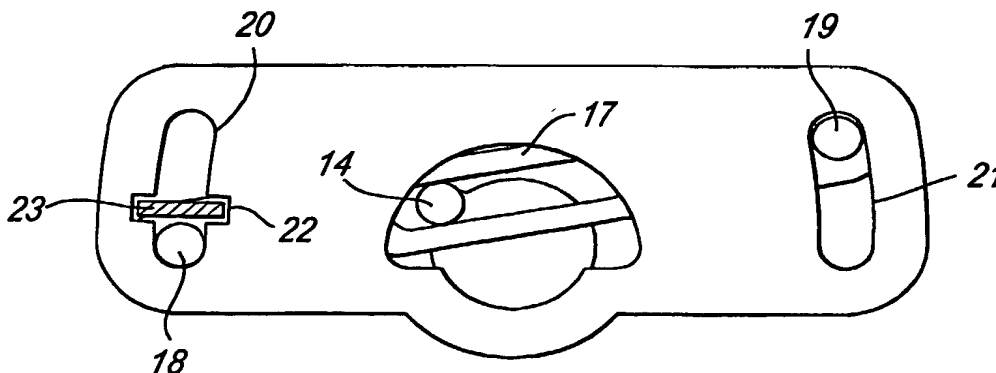
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
18 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **REVERSING LINKAGE**



(57) Abstract: A linkage mechanism comprising a moveable member mounted for movement with respect to a fixed member to which it is connected. The moveable member is provided with first and second elements spaced from each other with one element constituting a moveable element while the other constitutes a datum element. The relative movement between the moveable member and the fixed member is achieved by means which are located and arranged to preferentially utilise the first of the spaced elements as the datum with respect to which the second element is moved. The mechanism further comprises a means for selectively inhibiting movement of the second element which is preferably electrically controlled, whereby to cause the second element to become the datum. The linkage mechanism may be utilised in a door lock.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/03/03277

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E05B63/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 03 087503 A (PBT IP LTD ;POWELL SIMON (GB)) 23 October 2003 (2003-10-23) the whole document	1,2,5,6, 8
X	FR 2 726 847 A (NUOVA FEB FABBRICA ELETTRORAPPA) 15 May 1996 (1996-05-15) the whole document	1,2,5,8
A	EP 0 851 077 A (NUOVA F E B S R L FABBRICA ELE) 1 July 1998 (1998-07-01) the whole document	1
A	DE 195 16 088 A (GARNY SICHERHEITSTECHN GMBH) 7 November 1996 (1996-11-07) the whole document	1
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☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

13 January 2004

Date of mailing of the international search report

21/01/2004

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP03/03277

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 334 636 B1 (WANG JO-CHIAO ET AL) 1 January 2002 (2002-01-01) the whole document</p> <p>-----</p>	1

INTERNATIONAL SEARCH REPORT

International application No
PCT/03/03277

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03087503	A	23-10-2003	WO 03087503 A1	23-10-2003
FR 2726847	A	15-05-1996	IT B0940502 A1	14-05-1996
			ES 2133031 A1	16-08-1999
			FR 2726847 A1	15-05-1996
EP 0851077	A	01-07-1998	EP 0851077 A1	01-07-1998
			DE 69617446 D1	10-01-2002
			DE 69617446 T2	04-04-2002
			ES 2163608 T3	01-02-2002
DE 19516088	A	07-11-1996	DE 19516088 A1	07-11-1996
US 6334636	B1	01-01-2002	NONE	